"Coordination of Indiana GIS through dissemination of data and data products, education and outreach, adoption of standards, and building partnerships."

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October 2001

INDIANA GIS INITIATIVE

INSIDE THIS ISSUE:

2001-02 Quarterly Meeting Schedule

Friday October 19, 2001
9:30—12 pm
Johnson County Soil and Water Conservation Building, Franklin, IN
317-736-954
Motels:
Carlton Lodge 317-736-0480
Howard Johnsons Express 317-738-4448
Quality Inn 317-346-6444
Super 8 317-738-0888
Days Inn 736-8000

1—4 pm
Indiana Geographic Information Council Business Meeting

Feb 28-March 1, 2002
Indiana GIS 2002: Moving to the Mainstream—Conference will take the place of the regular INGISI Quarterly Meeting

OPEN PUBLIC MEETING ANNOUNCEMENT

You're invited to attend the next Indiana GIS Initiative meeting from 9:30am to noon on **Friday October 19, 2001** at the Johnson County Soil and Water Conservation Building 550 E. Jefferson (same as State Rd 44) Franklin, IN, in the 2nd floor Conference room. From I-65 Franklin exit go west to 550 E. Jefferson or from US-31 go east to 550 E. Jefferson. A pre-meeting ice-breaker will start at 9:00 am.

AGENDA
1. Introductions
2. Indiana Geographic Information Council Report
3. Standards and Recommendations Committee— on agenda for approval: Projections/Coord. Systems, Datums, Scale and Accuracy
4. Data Sharing Committee—I-Team Framework Data Investigation, I-Team Plan tasks
5. Framework data questionnaire — summary report of results
6. Conference Committee— 2002 GIS Conference planning
9. NW Indiana GIS Forum *Benefits of Regional User Groups*— Project Profile (see page 2)
10. The Geography Network *ESRI*—Project Profile (see page 2)
11. Additional comments / open floor.

PLANNING A GEOGRAPHIC INFORMATION INFRASTRUCTURE:

IGIC STRATEGIC PLAN AND I-TEAM REPORT

The Indiana Geographic Information Council has released its Strategic Plan and I-Team Report "*Planning a Geographic Information Infrastructure*". The complete report is available at www.in.gov/ingisi/plan/index.html.

Strategic planning and the I-Team plan are on-going processes—participation in planning or on any IGIC Committee is open to all interested parties. Contact Jill Saligoe-Simmel (jsaligoe@iupui.edu; 317-920-9150) to participate. The following are excerpts from the report:

STRATEGIC PLAN

Coordination of GIS resources is vital to informed decision-making. To make the best decisions we need the best – *most reliable* – data. Over 80% of public data has a geographic component. For education, human services, public safety, environment, tax assessment, agriculture, and others - GIS data

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PROJECT PROFILES BEING DEMONSTRATED AT NEXT INGISI MEETING

The Geography Network
ESRI

The Geography Network is a global network of geographic information users and providers. It provides the infrastructure needed to enable the sharing of geographic information between data providers, service providers, and users around the world. The Internet is used to deliver geographic content to the user's browser and desktop. Through the Geography Network, you can access many types of geographic content including live maps, downloadable data, and more advanced services. The Geography Network content is distributed at many locations around the world, providing you access to the latest information available directly from the source. Michael Klepper and Don Homan Jr. will present a live demonstration of the Geography Network.

NW Indiana GIS Forum—
Benefits of Regional User Groups

The Northwest Indiana GIS Forum is a group of over 50 GIS professionals from the Calumet Region who are dedicated to helping ourselves and others successfully implement GIS. Organized in 1997, this regional user group has focused on metadata compilation, GIS education and professional networking. Co-chairs Becky McKinley and Tim Sutherland will discuss how the group got started, what they've accomplished thus far and what they have planned for the future. They will also help answer questions you might have about organizing your own regional user group.

BRIEFING: STATE AGENCY GIS TASK FORCE

The Indiana State Agency GIS Task Force has completed its strategic planning. The Task Force identified the following goals:
Integration Goal: To advance and integrate GIS into the Information Management Systems of the State Agencies.
Training Goal: To develop and maintain a broad base of GIS capable business experts in the State Agencies.
Data Goal: To create and maintain high-quality GIS data through the normal business practices of the State Agencies.
Communication Goal: To create and maintain cooperative and collaborative relationships between the State Agencies and with the GIS community at large through effective communication.
Contact Roger Koelpin (rkoelpin@dpoc.state.in.us; 317-232-0181) for more information.

THE NATIONAL SPATIAL DATA INFRASTRUCTURE (NSDI) AND HOMELAND SECURITY

John Moeller, FGDC Staff Director—Benefits of the NSDI listed in the Circular A-16 Revision include: a more secure Nation, homeland defense, protection planning, and a means to a well coordinated response to nuclear, chemical, and biological incidents or natural disasters. Shared information and collaboration are needed to combat terrorism. Homeland Security requires good, integrated geographic information.
Lessons from September 11:
. Security requires immediately available information.
. Threats may come from widely dispersed locations.
. Geographic information and GIS are critical.
. All levels of government and sectors must work together to combat terrorism.
. Information needs may vary greatly by theme and scale depending on circumstances.
. Physical infrastructure both above and below ground are crucial.

NSDI Metadata Standards, Clearinghouse search capability and Framework serve a valuable role in homeland security.

PLANNING A GEOGRAPHIC INFORMATION INFRASTRUCTURE

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are the best data. But not if the data don't "fit" together, not if the data aren't accessible, not if we don't know the data exist, and not if the data aren't well documented. For informed decision-making using GIS data we need these data to a coordinated resource statewide.

The mission of the Indiana Geographic Information Council is to "lead the effective application of GIS in Indiana for an improved quality of life". The vision of IGIC is that "all Indiana communities will be healthier, wealthier and wiser because they are part of a robust statewide GIS infrastructure."

In keeping with the mission and vision, IGIC's objectives are the coordination of Indiana GIS through:

Dissemination of data and data products,
Education and outreach,
Building partnerships, and
Standards and recommendations.

Organizationally, IGIC is currently sustained through soft-money funding and a large volunteer base. IGIC is in the process of incorporating as a not-for-profit. In order to address the continued growth in requirements for administrative management, funded activities, and membership services, a new more sustainable funding model is needed. As such, IGIC has adopted organization and management objectives to become self-sustaining.

I-TEAM REPORT

The Indiana Geographic Information Council (IGIC) has endorsed the federal Office of Management and Budget's (OMB) I-Team concept for assessing the status of the Federal Geographic Data Committee's (FGDC) Framework Data Themes. IGIC established itself as Indiana's I-Team in January 2001. The goal of Indiana's I-Team is to devise a plan for development and long-term maintenance for each theme. This Report represents the first phase of that effort.

The framework is a collaborative effort to create widely available source of basic geographic data. The framework represent "data you can trust" – the best available data for an area, certified, standardized, and described according to a common standard. It provides a foundation on which organizations can build by adding their own detail and compiling other data sets.

The I-Team has defined priority data themes and begun an inventory of the seven framework themes defined by the FGDC. The following is a summary of that inventory, indicating the progress of data development, standards, identification of custodians, and funding requirements:

Framework Inventory Summary

1. Geodetic Control The Indiana High Accuracy Reference Network (HARN) stations are critical to the spatial development of Indiana; from utilities to highways, Geographic Information Systems (GIS) to Precision Farming. The HARN stations will become the basis of how we determine where we are in the 21st century.

The first phase of the HARN established 126 stations in Indiana. The NGS, Schneider Inc., Plumb Tucket & Associates, Indiana Department of Transportation (INDOT), Indiana Department of Environmental Management (IDEM), and many others (see: contributors) made observations in the summer of 1997. Data processing was undertaken by the National Geodetic Survey. For the second phase of the HARN, Woolpert was contracted, by the Office of the Indiana State Geodetic Advisor (OISGA), to observe an additional 25 stations in Indiana. Observations took place during the summer of 1998. Each of the Indiana counties has at least one HARN station. Refer to the Indiana HARN web page and the Office of the Indiana State Geodetic

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Communities at the Crossroads IV:
Land Use in the New Economy

Mark Your Calendars! Tuesday, November 13, 2001
Indianapolis Marriott (East)
For more information, visit our website at *www.indianalanduse.org*.
You may also call or email Jamie Palmer, Conference Chair,
at 317/261-3046 or jlpalmer@iupui.edu

RECOGNITION OF INGISI/IGIC VOLUNTEERS AND CONTRIBUTORS

Upon the 1-year anniversary of the Indiana Geographic Information Council, a very special ***thank you!*** *to the many contributors and volunteers that have made the Indiana GIS Initiative and Council successful!*

Contributors:

AccessIndiana—development, hosting and maintenance of the Indiana GIS Information Access Center www.in.gov/ingisi; ***ASI***—in-kind support of the e-Map Indiana project (pending); ***Barnes & Thornburg***—pro-bono legal services for incorporation of Indiana Geographic Information Council (IGIC); ***Federal Geographic Data Committee***—start-up funding for IGIC and grant support for the Indiana Metadata Program; ***Federal Highways Administration***—funding (pending) of the Indiana data clearinghouse; ***Hamilton Co.***—facilities; ***Indiana Department of Environmental Management***—funding of IGIC Strategic Planning; ***Indiana Department of Transportation***—funding (pending) of the Indiana data clearinghouse; ***Indiana Farm Bureau***—facilities; ***Indiana Geological Survey***—conference logo design and poster-boards; ***Indiana Land Resources Council***—funding for a Strategic Assessment, System Planning and Design of Indiana Data Clearinghouse; ***IUPUI University Library***—development and hosting of Indiana Geographic Information Catalog (metadata catalog); ***Johnson Co. SWCD***—facilities; ***Natural Resource Conservation Service***—donated professional facilitator; facilities; *State of Indiana*—facilities; ***The Polis Center at IUPUI***—institutional host and direct support of IGIC during 1st year; co-sponsorship of GIS Seminar Series; facilities; ***The Schneider Corporation***— development , hosting, and maintenance of the Indiana GIS Discussion Forum; INGISI & IGIC logo designs

Volunteers:

IGIC Strategic Planning Workgroup: David Mockert, Marion Co. GIS; Eric Torok, The Schnieder Corp.; Roger Koelpin, State of IN; Kent Park, ASI, Inc; Jill Saligoe-Simmel; Andy Laudick, Marion Co. Health and Hospital; Lou Zickler, Indiana Assoc. of Realtors

IGIC Data Sharing Committee: Bruce Nielsen, NRCS; Kevin Petche, IUPUI ; Lorraine Wright, IDEM; Anna Radue, IU; Paul Irwin, IGS; Kevin Miller, IDEM; Irvin Goldblatt, Ann Starn, FSSA; IDEM; Michael Klepper, ESRI; Fiona Solkowski, The Nature Conservancy; David Melton, Plexis Group; Debra Martin, City of South Bend; Rick King, ASI; Jill Saligoe-Simmel; E.J. McNaughton, IDEM

IGIC Standards Committee: Kurt Babcock, IDNR; David Beery, AccessIndiana; Brad Buening; David Glenn, INDOT; Ed Lutz, IDoH; Irv Goldblatt, IDEM; Dan Johnson, IUPUI; Gary Kent, The Schneider Corp.; Rick King, ASI; Roger Koelpin, State of IN; Linda Lambert, IDNR; Doug Marvel, Atlantic Tech.; Kevin Miller, IDEM; Brian Murray, IDEM; Dan Pusey, Purdue; Dina Sabri, BLN; Jill Saligoe-Simmel; Ron Schonegg, 3DI; Jeff Sewell, IDEM; Jim Sparks, Polis; Scott Stephens, BLN; Larry Stout, Hamilton Co.; Theresa Thompson, IU; Eric Torok, The Schneider Corp.; Bob Weaver, Hoosier Heartland; Bob Wilkinson, IDNR; Mike Wood, INDOT

IGIC Conference Committee: Charline Avey, Indpls. Water Co.; Susan Berta, ISU; Mark Ehle, Purdue; Bernie Engel, Purdue; Tom Evans, IU; Jane Frankenburger, Purdue; Irv Goldblatt, IDEM; Andrew Harrison, The Schneider Corp.; Paul Irwin, IGS; Chris Johannsen, Purdue; Roger Keolpin, State of IN; Bill Krieger, Pike Twshp Fire Dept.; Mike Machlan, City of Elkhart; Gene Matzat, Purdue; Paul Mausel, ISU; Kevin Mickey. Polis; Kevin Miller, IDEM; Nancy Obermeyer, ISU; Kent Park, Sanborne Map Co.; Jill Saligoe-Simmel; Paul Schanayda, BSU; Jeff Siegel, HNTB; Moshrek Sobhy, URC; Ann Starn, FSSA; Scott Stephens, BLN; Jim Stout, The Schneider Corp.; Larry Stout, Hamilton Co.; Larry Theller, Purdue; Kevin Turcotte, BSU; Bob Weaver, Hoosier Heartland; Lorraine Wright, IDEM

IGIC Web Development Committee: Dave Glenn, INDOT; Irv Goldblatt, IDEM; Dan Johnson, IUPUI; Roger Koelpin, State of IN; Paul Lineback, Polis; Caroline Roberts, City of South Bend; Jill Saligoe-Simmel; Eric Torok, Schneider; Joyce West, Sidwell Co.; Rob Williams, BLN

IGIC Networking Committee: John R. Barnhart, IU; Mark Ehle, Purdue; Neal Gage, GAI Consultants; Irv Goldblatt, IDEM; Bob Grewe; Laura Haley, City of Bloomington; Roger Koelpin, State of IN; Michael Machlan, City of Elkhart; Doug Marvel, Atlantic Tech.; Becky McKinley, NW GIS Forum; Jill Saligoe-Simmel; John Tanger, NIPSCO; Joyce West, Sidwell Co.

IGIC Education Committee: Mark Ehle, Purdue; Jeff Elliott, IU; Jane Frankenburger, Purdue; Irv Goldblatt, IDEM; Andrew Harrison, Schneider Corp.; Paul Irwin, IGS; Jie (Jeffrey) Shan, Purdue; Jennifer A. Johnson, IUPUI; Roger Koelpin, State of IN; Bill Krieger, Pike Twnshp Fire Dept.; Andy Laudick, Marion Co. Health and Hospital; Gene Matzat, Purdue; Kevin Miller, IDEM; Nancy Obermeier, ISU; Caroline Roberts, City of South Bend; Jill Saligoe-Simmel; Moshrek Sobhy, IN URC; Hilary Steinhard, GENI; Scott Stephens, BLN; Kevin Turcott, BSU; Lorraine Wright, IDEM

Council Members:

Jay Poe, Association of County Land Surveyors/ Huntington County Surveyors Office; Travis Worl, Association of Indiana Counties; Greg Justis, Cinergy; Mike Machlan, City of Elkhart Public Works & Utilities; Dave Mockert, City of Indianapolis; Timothy Sutherland, Grand Cal Task Force; Larry Stout, Hamilton County - Information System Services Department; Bob Weaver, Hoosier Heartland Inc. / Johnson County Soil and Water Conservation District; Lisa Gehlhausen, Indiana 15 Regional Planning Commission; Mark Bucherl, Indiana Association of Cities and Towns; Lou Zick-

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RECOGNITION...

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ler, Indiana Association of Realtors / Horizon Group, Inc.; Irvin Goldblatt, Indiana Department of Environmental Management; Mike Andrews, Indiana Department of Transportation; Michael Baise, Indiana Farm Bureau, Inc.; John Hill, Indiana Geological Survey/ Indiana University; Dan Pusey, Indiana Society of Professional Land Surveyors / Purdue University; John Tanger, NIPSCO; Becky McKinley, Northwest Indiana GIS Forum / Hammond Sanitary District; Roger Koelpin, State of Indiana Data Processing Oversight Commission; Jim Sparks, The Polis Center at IUPUI; Eric Torok, The Schneider Corporation; Phil Worrall, Analytical Surveys Incorporated; Lindsay Swain, U.S. Geological Survey; Jane Hardisty, USDA-Natural Resources Conservation Service; Jill Saligoe-Simmel, Watershed Research

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Advisor (http://bridge.ecn.purdue.edu/~oisga/).

2. Digital Ortho-Imagery Indiana was a USGS pilot study state for statewide comprehensive digital orthophotography collection. As a result, Indiana has a complete first generation seamless coverage of Digital Orthophoto Quads (DOQQs) for the state at one-meter resolution. The DOQQs can serve as a base for development of several other statewide framework layers. The DOQQs are from 1997-1999 and were developed at a cost of approximately $800.00 per quarter quad. Complete coverage of second generation DOQQs for the State would cost approximately $4,928,000. The I-Team has discussed a revision cycle of ten years.

3. Elevation Geospatial elevation data are utilized by the scientific and resource management communities for hydrologic modeling, resource monitoring, mapping, and visualization applications. The USGS National Elevation Dataset (NED) Digital Elevation Model (DEM's) currently provide complete coverage for Indiana at 30 meter resolution. The NED is a seamless mosaic of best-available elevation data. An estimated $436,770 is required to complete once-over state coverage for 10-meter DEMs. Estimate based on the current cost of $690 to produce one 10-meter DEM for the remaining 633 7.5-minute quadrangles in the state.

4. Transportation Currently, the Indiana Department of Transportation is updating its certified roads database and GIS for system 1, 2 and 3 roads statewide. System 1 roads are nearly complete and rectified to the statewide 1:12,000 digital orthophotography (DOQQs). The INDOT roads database operates a linear referencing system based on county log mile, cumulative log miles, and referencing posts. Additionally, U.S. Census Tiger 2000 Line File is a complete 1:100,000 centerline street-base for the state of Indiana and is linearly referenced based on an address system. The street address referencing system is critical to issues requiring address matching/geocoding applications. The Tiger Line File has not been geographically rectified to Indiana's DOQQ's.

5. Hydrography The Hoosier National Forest is on the USGS priority list for high-resolution US Geological Survey (USGS) National Hydrology Dataset (NHD), and provides the sub-basin hydrologic unit codes (HUC) numbers and information about quads of various source 1:24,000 scale data. Additionally, there are two pilot projects, the Eel and Upper Wabash watersheds, to be done by the USGS Mapping Applications Center (MAC) in Reston, VA, and a number of partial watersheds being completed with surrounding states.

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JOB POSTINGS

GIS Director—Allen County (Fort Wayne) Indiana, USA

Allen County, Indiana (total pop 332,000) is seeking a GIS director to plan, organize, direct, coordinate, and budget for its developing state-of-the-art GIS program. **Refer to full announcement at** www.in.gov.ingisi/jobs/index.html**.** A resume and cover letter addressing the necessary skills noted above may be e-mailed to: gis.search@co.allen.in.us; faxed to 219.449.7682; or mailed to: GIS Search; Department of Planning Services; 630 City-County Building; Fort Wayne, IN 46802-1804. Deadline for filing: 4:30 p.m., October 26, 2001. EOE Smoke-free/Drug-free Workplace.

INDIANA GIS 2002 CONFERENCE: MOVING TO THE MAINSTREAM

Call for Abstracts

You are invited to submit an abstract for presentation or for an entire moderated session of multiple presentations to share your knowledge, ideas, and project case studies with your colleagues and peers. **Presentation and session submissions are due by December 15, 2001**. Conference February 28-March 1, 2002 at the Sheraton Indianapolis Hotel and Suites at Keystone at the Crossing.

Go to www.in.gov/ingisi for complete details.

245 W. 44th Street
Indianapolis, IN 46208

We're on the Web! www.in.gov/ingisi

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The Indiana Department of Natural Resources (IDNR) is the USGS direct partner for high-resolution NHD in Indiana. USGS and IDNR have signed a Joint Funding Agreement (JFA) for high-resolution NHD. Estimates to complete a statewide high-resolution NHD coverage will cost a total of $510,000, with the state's share being $255,000 (50-50 actual costs with USGS). This estimate is figured over an approximate two-year timeframe.

6. Boundaries There are multiple sources for boundary related data in Indiana. Indiana Department of Transportation has upgraded municipal corporation boundaries that are rectified to DOQQs 1:12,000 scale; the coverage is complete statewide with ongoing maintenance. Costs for the boundaries theme are yet to be determined.

7. Cadastral In Indiana, cadastral (real property) data development for private lands is under the jurisdiction of individual counties. Approximately 32 counties have completed or have begun to complete digital GIS coverage of their cadastral data, leaving 60 that need collection, correction, and validation. Currently there are no statewide standards for consistency of cadastral data development. To complete a cadastral layer for the State of Indiana, an estimated total of $12 million will be required. This figure represents varying degrees of work for the 92 counties in Indiana, and does not include the ongoing maintenance necessary to keep the layer current. The above figure is an estimate based on number of parcels at $7.00 per parcel for data conversion and parcels at $0.50 per parcel to bring existing digital parcels to a state standard.

In addition to the above framework data themes, soils and geology are identified by IGIC as priority data themes for Indiana.

IGIC is in the process of identifying the driving issues for each level of government. An initial list of issues is discussed in this plan; however, a more comprehensive analysis of the issues and identification of overlapping information needs will addressed in future meetings.

INGISI welcomes your feedback. To submit an article, information or event to the INGISI Newsletter or E-calendar, contact
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